

FIGURE 1

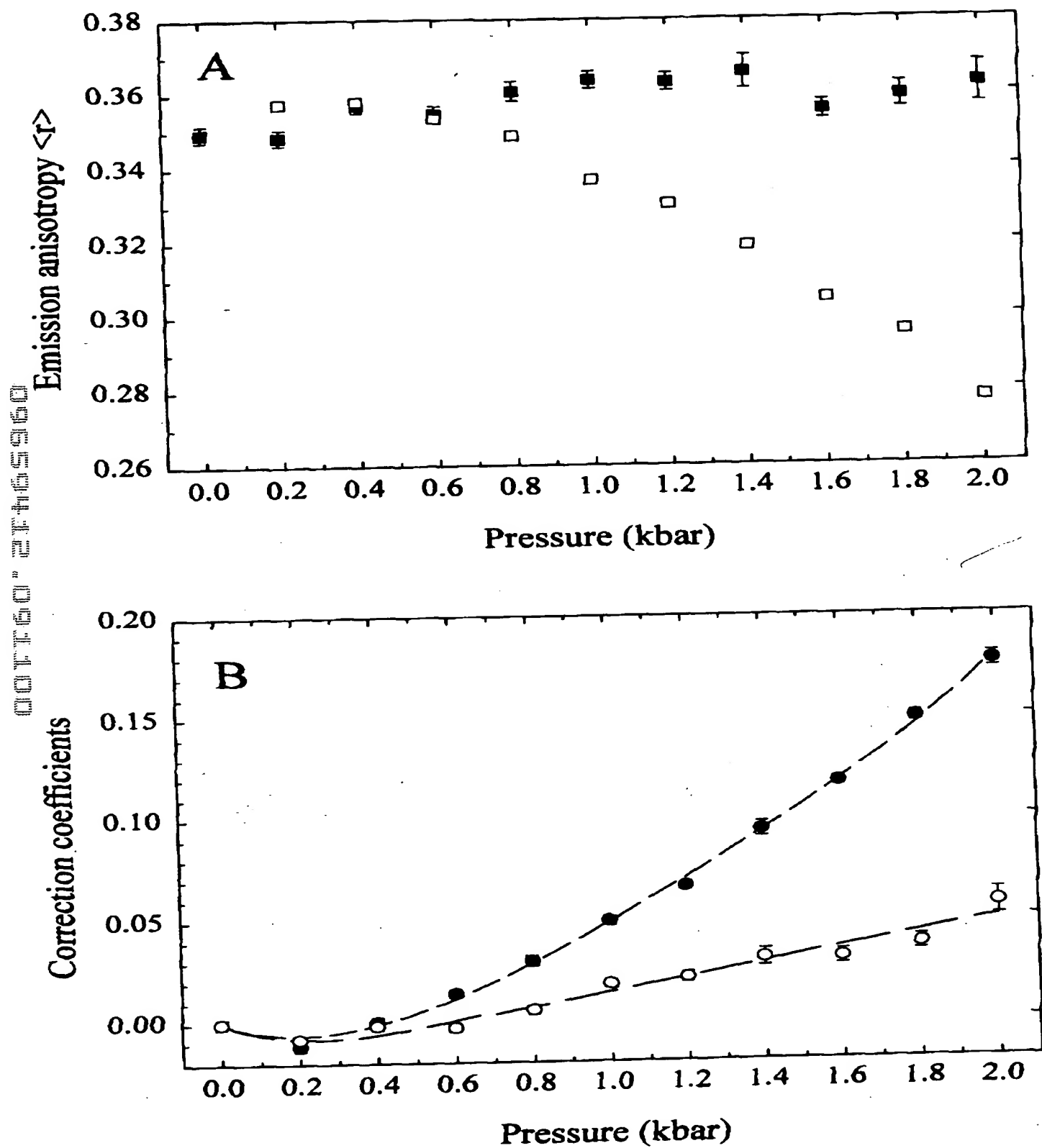


FIGURE 2-

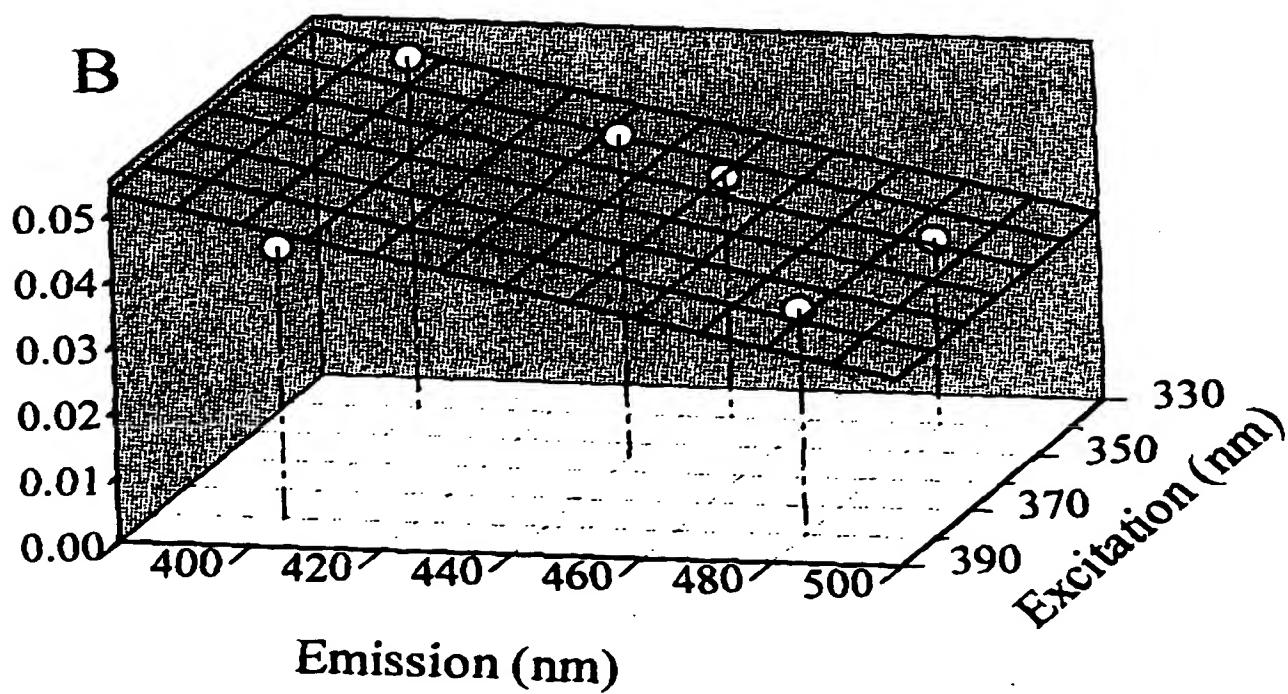
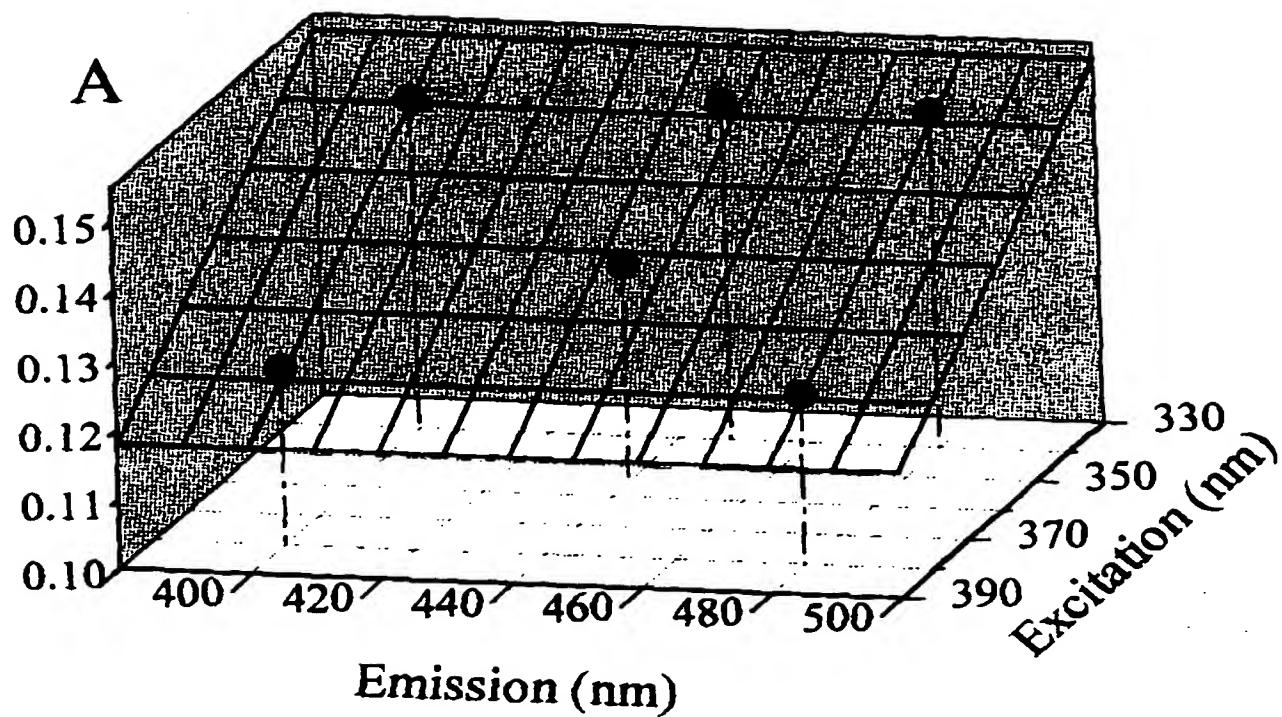


FIGURE 3

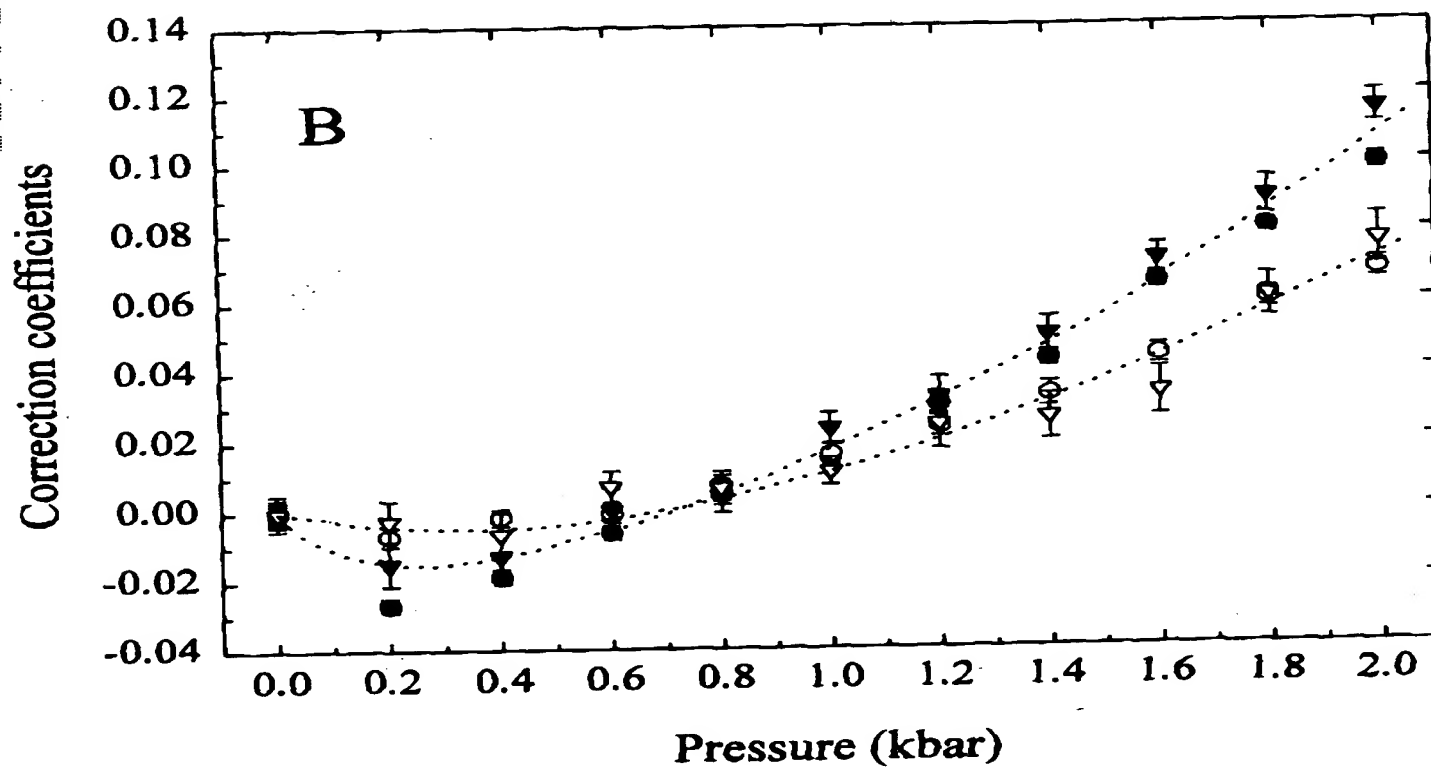
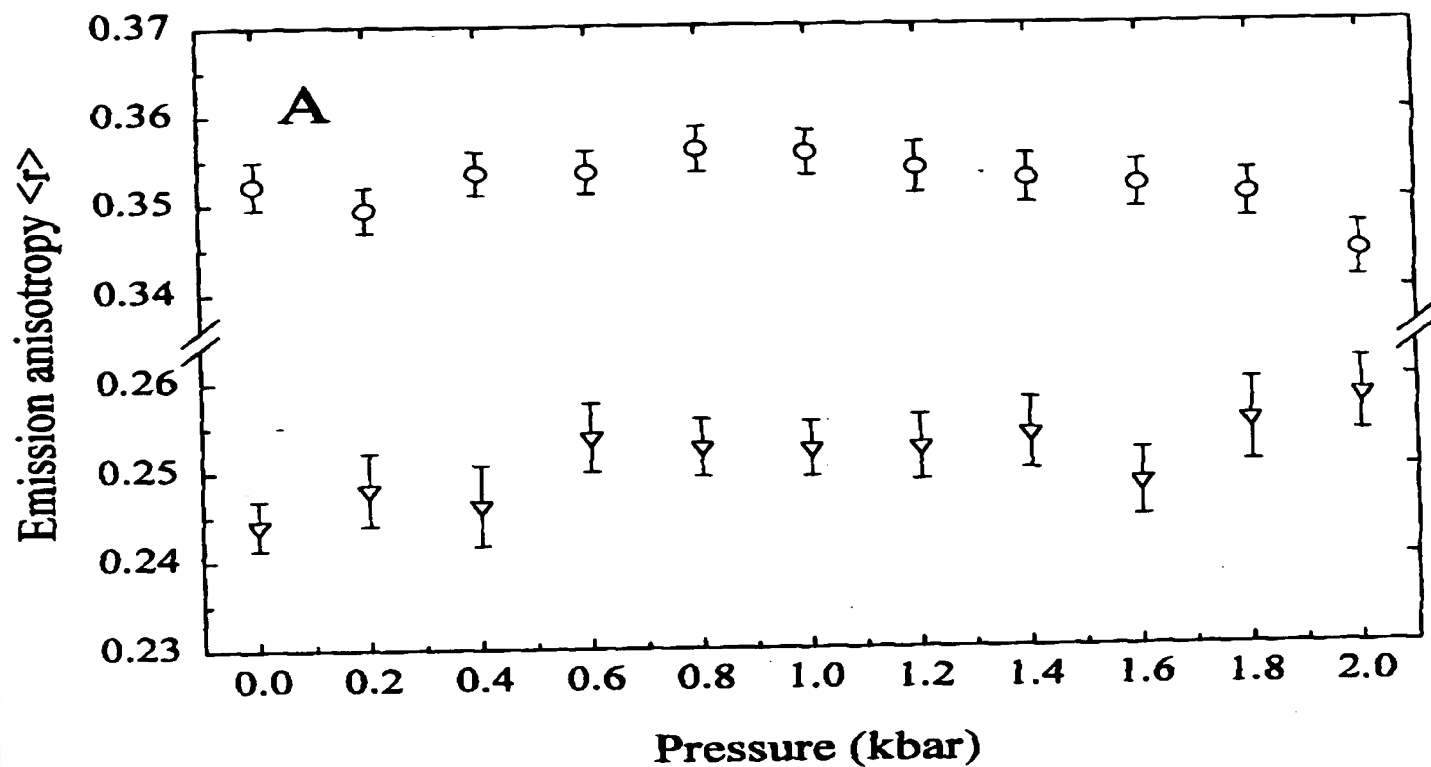


FIGURE 4

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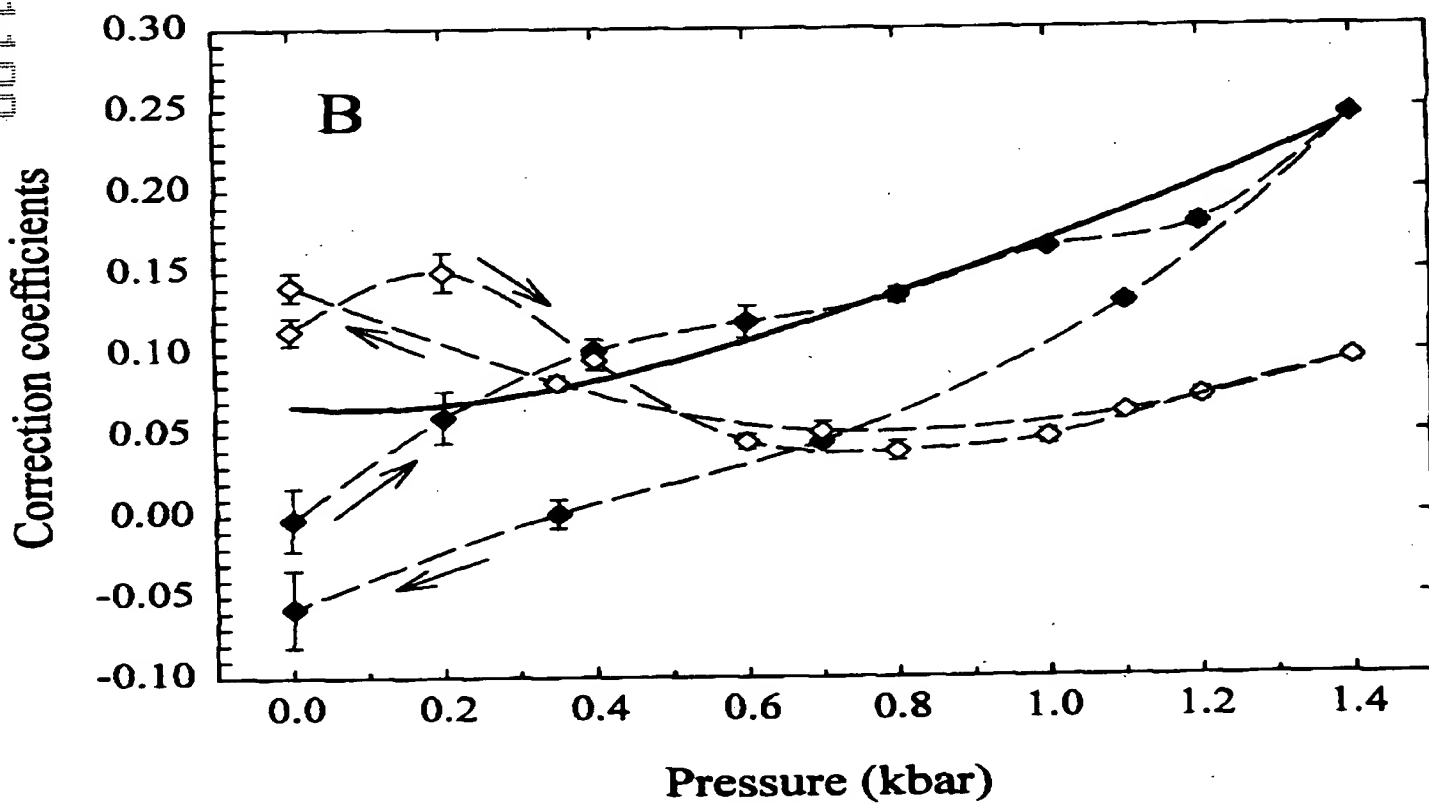
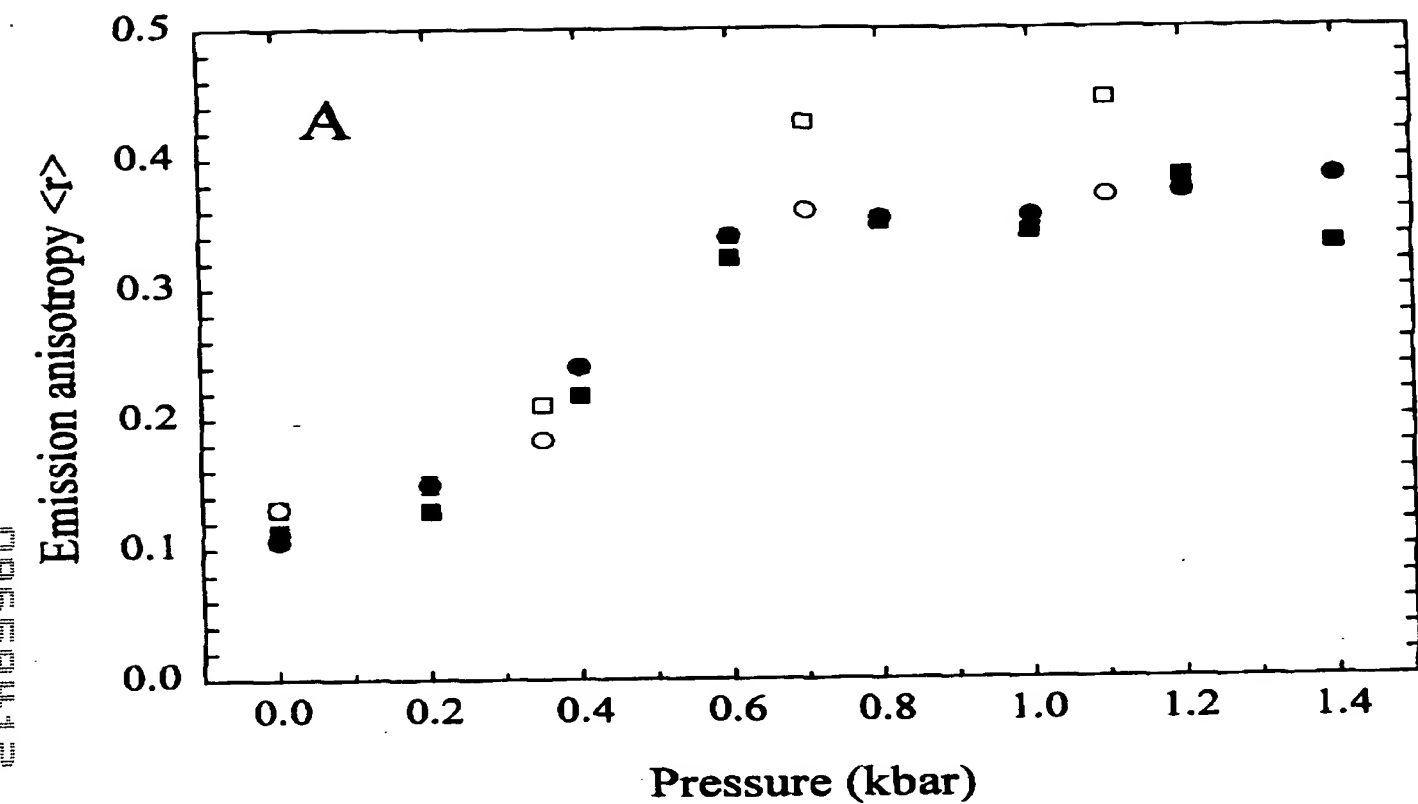
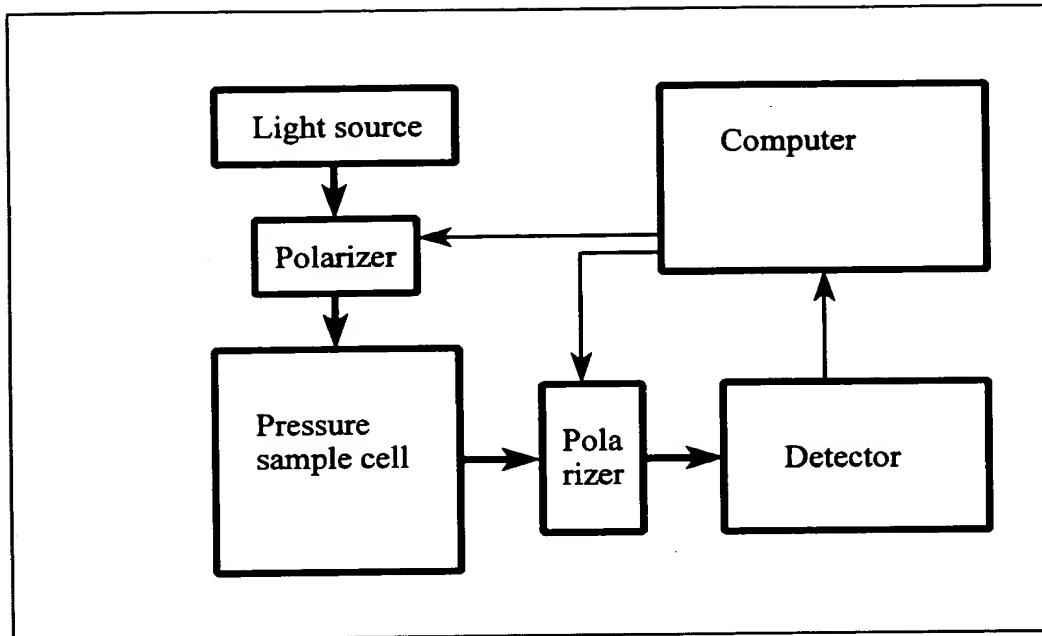


FIGURE 5A

	Method of total intensity measurement	Excitation	Emission	<r>	Obtained intensity of fluorescence at		Comments
					$X(p=1\text{ bar})=0$ $Y(p=1\text{ bar})=0$	$X(p=1.4\text{ kbar})=0.25$ $Y(p=1.4\text{ kbar})=0.10$	
1	photocurrent	fixed vertical polarizer	no polarizer	0.1	1.00	0.92	Not recommended even for non-pressure experiments, very instrument dependent
				0.36	1.16	1.014	
2	photocurrent	unpolarized light	no polarizer	0.1	1.00	0.997	Less instrument dependent, but true non-polarized light is difficult to obtain
				0.36	0.96	0.95	
3	Magic angle, Method 1	fixed vertical polarizer	fixed polarizer at 55° to vertical	0.1	1.00	0.983	Recommended for non-pressure experiments
				0.36	1.00	0.937	
4	Magic angle, Method 2	fixed polarizer at 55° to vertical	fixed vertical polarizer	0.1	1.00	1.013	Recommended for non-pressure experiments
				0.36	1.00	1.045	
5	Magic angle, Method 3	depolarized light	fixed polarizer at 55° to horizontal	0.1	1.00	0.995	Recommended for non-pressure experiments, but true non-polarized light is difficult to obtain
				0.36	1.00	0.982	
6	Magic angle, Method 4	fixed polarizer at 55° to horizontal	scrambling plate	0.1	1.00	0.988	Recommended for non-pressure experiments
				0.26	1.00	0.955	
7	calculated with formula: $G \cdot i_{VV} + 2 \cdot i_{VH}$	fixed vertical polarizer	rotating polarizer	0.1	1.00	0.98	Recommended for non-pressure experiments, G must be known
				0.36	1.00	0.94	

	Method of total intensity measurement	Excitation	Emission	<r>	Obtained intensity of fluorescence at		Comments
					$X(p=1\text{ bar})=0$ $Y(p=1\text{ bar})=0$	$X(p=1.4\text{ kbar})=0.25$ $Y(p=1.4\text{ kbar})=0.10$	
8	calculated with formula: $\frac{I_{HH} \cdot I_{VV} + 2 \cdot I_{VH}}{I_{HV}}$	rotating polarizer	rotating polarizer	0.1	1.00	0.96	Recommended for non-pressure experiments, definitely wrong for pressure domain
				0.36	1.00	0.83	
9	Calculated with equation (6)	rotating polarizer	rotating polarizer	0.1	1.00	1.00	Recommended for pressure domain experiments, G and E factors must be known
				0.36	1.00	1.00	

FIGURE 5B



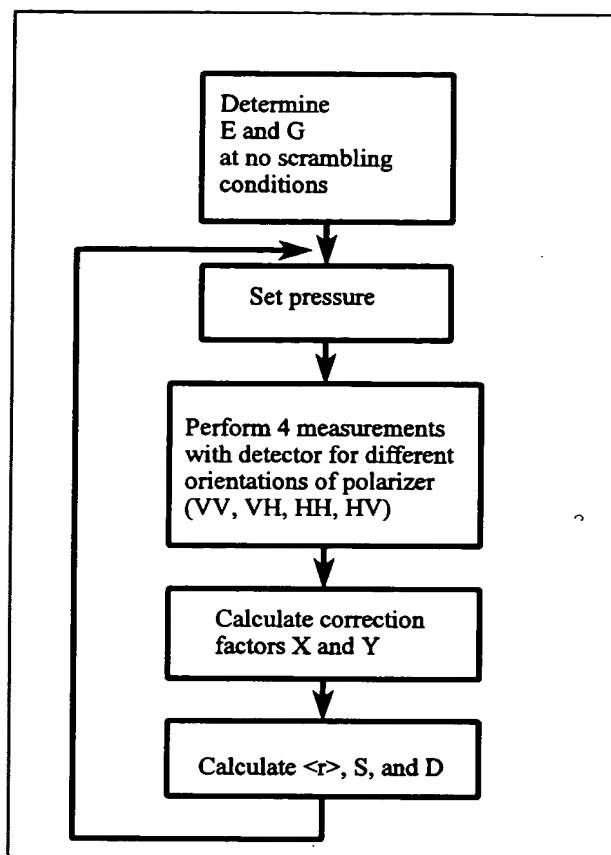


Figure 7